

# **SYSTEM AND METHOD FOR DETECTING AND SHARING COMMON BLOCKS IN AN OBJECT STORAGE SYSTEM**

## **ABSTRACT**

A system and method of optimizing storage of common data blocks within a networked storage system comprises receiving a data block to be stored in the networked storage system, analyzing contents of the received data block to determine how many copies of the data block the system is entrusted to store and how many copies of the data block existing within the system, and to identify a location of each copy of the data block within the system, identifying performance and reliability requirements of the system, determining an optimal number of copies of the received data block to store in the system, wherein the determination is made according to a number of copies of the data block the system is entrusted to store together with the identified performance and reliability requirements of the system, and maintaining the optimal number of copies of the received data block within the system.